VOL. 571, NOS. 1+2 JOURNAL OF CHROMATOGRAPHY NOVEMBER 15, 1991

(Biomedical Applications, Vol. 109, Nos. 1+2)

CONTENTS

(Abstracts/Contents Lists published in Analytical Abstracts, Biochemical Abstracts, Biological Abstracts, Chemical Abstracts, Chemical Titles, Chromatography Abstracts, Clinical Chemistry Lookout, Current Contents/Life Sciences, Current Contents/Physical, Chemical & Earth Sciences, Deep-Sea Research/Part B: Oceanographic Literature Review, Excerpta Medica, Index Medicus, Mass Spectrometry Bulletin, PASCAL-CRNS, Pharmaceutical Abstracts, Referativnyi Zhurnal, Research Alert, Science Citation Index and Trends in Biotechnology)

Profiling of eicosanoids in inflamed gall bladder wall by gas chromatography with selected-ion monitoring
by T. Sakurai and H. Ichimiya (Fukuoka, Japan), H. Miyazaki (Tokyo, Japan) and F. Nakayama (Fukuoka, Japan) (Received May 30th, 1991) 1

High-performance liquid chromatographic determination of cholesteryl esters in the blood of obese children
by J. Böswart, P. Kostiuk and J. Vymlátil (Prague, Czechoslovakia), T. Schmidt (Leipzig, Germany) and V. Pacáková and K. Štulík (Prague, Czechoslovakia) (Received May 30th, 1991) 19

Rapid measurement of leucine-specific activity in biological fluids by ion-exchange chromatography and post-column ninhydrin detection
by E. P. Donahue, L. L. Brown, P. J. Flakoll and N. N. Abumrad (Nashville, TN, USA) (Received June 17th, 1991) 29

K562 cells: a source for embryonic globin chains
by K. Bhaumik (Augusta, GA, USA) (Received June 7th, 1991) 37

High-performance liquid chromatography: purification and chromatographic behaviour of molecular variants of pepsinogen A from human urine
by R. A. Bank, A. W. Eriksson and G. Pals (Amsterdam, Netherlands) (Received June 28th, 1991) 47

Separation and characterization of sialic acid-containing salivary-type amylase from patients' sera with immunoglobulin A-type myeloma
by T. Moriyama (Asahikawa, Japan), T. Tozawa (Nishinomiya, Japan) and H. Yamashita, S. Onodera, M. Nobuoka and M. Makino (Asahikawa, Japan) (Received May 23rd, 1991) . 61

Direct quantitative digital autoradiography–thin-layer chromatography of 3α,3β- and 5α-reduced and 17β-dehydrogenated androgens derived from testosterone metabolism
by P. Vingler, M. Kermici and P. Krien (Aulnay sous Bois, France) (Received June 20th, 1991) 73

Determination of diclofenac in plasma and urine by capillary gas chromatography–mass spectrometry with possible simultaneous determination of deuterium-labelled diclofenac
by A. Sioufi, F. Pommier and J. Godbillon (Rueil-Malmaison, France) (Received June 11th, 1991) 87

(Continued overleaf)

Contents (continued)

Determination of (−)-bunolol and its metabolite, dihydro-(−)-bunolol, in human aqueous humour by gas chromatography–negative ion chemical ionisation mass spectrometry
by D. G. Watson, J. M. Midgley and C. N. J. McGhee (Glasgow, UK) (Received June 7th, 1991) 101

Gas chromatographic analysis of isomeric organic mononitrates in plasma
by T.-B. Tzeng and H.-L. Fung (Amherst, NY, USA) (Received May 8th, 1991) 109

Gas chromatographic determination of ifosfamide in microvolumes of urine and plasma
by G. P. Kaijser (Utrecht, Netherlands), J. H. Beijnen (Amsterdam, Netherlands), A. Bult and G. Wiese (Utrecht, Netherlands), J. de Kraker (Amsterdam, Netherlands) and W. J. M. Underberg (Utrecht, Netherlands) (Received June 10th, 1991) 121

Determination of S-carboxymethyl-L-cysteine and some of its metabolites in urine and serum by high-performance liquid chromatography using fluorescent pre-column labelling
by B. Staffeldt, J. Brockmöller and I. Roots (Berlin, Germany) (Received May 30th, 1991) 133

Reversed-phase high-performance liquid chromatographic approach to determine total lymphocyte concentrations of 6-thioguanine, methylmercaptopurine and methylthioguanine in humans
by G. R. Erdmann, J. C. Steury, B. C. Carleton, R. J. Stafford, B. C. Bostrom and D. M. Canafax (Minneapolis, MN, USA) (Received June 10th, 1991) 149

High-performance liquid chromatographic method for the routine determination of sulphadimidine, its hydroxy metabolites and N4-acetylsulphadimidine in body fluids and cell culture media
by G. A. E. van 't Klooster, P. B. van Seeventer, H. J. Kolker, L. A. Smit and R. F. Witkamp (Utrecht, Netherlands) (Received May 29th, 1991) 157

Reversed-phase liquid chromatographic method for the simultaneous determination of the antimalarial drugs sulfadoxine, pyrimethamine, mefloquine and its major carboxylic metabolite in plasma
by Y. Bergqvist, S. Eckerbom, H. Larsson and M. Malekzadeh (Falun, Sweden) (Received June 11th, 1991) 169

Stereoselective high-performance liquid chromatographic assay for pirmenol enantiomers in dog plasma
by N. Janiczek, H. N. Bockbrader, T. Chang, G. L. Amidon and D. E. Smith (Ann Arbor, MI, USA) (Received May 31st, 1991) 179

Determination of neomycin in plasma and urine by high-performance liquid chromatography. Application to a preliminary pharmacokinetic study
by B. Shaikh, J. Jackson and G. Guyer (Beltsville, MD, USA) and W. R. Ravis (Auburn, AL, USA) (Received June 14th, 1991) 189

Simultaneous determination of clarithromycin and 14(*R*)-hydroxyclarithromycin in plasma and urine using high-performance liquid chromatography with electrochemical detection
by S.-Y. Chu, L. T. Sennello and R. C. Sonders (Abbott Park, IL, USA) (Received June 20th, 1991) 199

High-performance liquid chromatographic method for the determination of spectinomycin in turkey plasma
by S. D. Burton, J. E. Hutchins, T. L. Fredericksen, C. Ricks and J. K. Tyczkowski (Research Triangle Park, NC, USA) (Received June 10th, 1991) 209

Analysis of lamotrigine and lamotrigine 2-N-glucuronide in guinea pig blood and urine by reversed-phase ion-pairing liquid chromatography
by M. W. Sinz and R. P. Remmel (Minneapolis, MN, USA) (Received June 14th, 1991) . 217

Short Communications

Rapid determination of 5-hydroxytryptamine in whole blood by liquid chromatography with fluorimetric detection
by E. Traiffort, P. Hubert, N. Tayeb and N. Aymard (Paris, France) (Received May 30th, 1991) 231

Use of high-performance liquid chromatography for assay of glutamic acid decarboxylase. Its limitation in use for *post-mortem* brain
by M. Chakraborty (New Haven, CT, USA), P. Lahiri (Calcutta, India) and G. M. Anderson and D. Chatterjee (New Haven, CT, USA) (Received June 14th, 1991) 235

Determination of an irreversible inhibitor of monoamine oxidase B (MDL 72974A) in human plasma and urine by gas chromatography–positive-ion chemical ionization mass spectrometry
by B. D. Dulery, J. Schoun and K. D. Haegele (Strasbourg, France) (Received June 12th, 1991) 241

Quantitation of trihexyphenidyl from plasma using a mass-selective detector and electron-impact ionization
by M. Desage and M. Rousseau-Tsangaris (Lyon, France), D. Lecompte (Oullins, France) and J. L. Brazier (Lyon, France) (Received June 7th, 1991) 250

Sensitive determination of piritramide in human plasma by gas chromatography
by H. C. Michaelis, D. Kietzmann, H. Neurath, U. Jongepier and B. Schilling (Göttingen, Germany) (Received June 7th, 1991) 257

High-performance liquid chromatographic determination of morphine, morphine-3-glucuronide, morphine-6-glucuronide and codeine in biological samples using multi-wavelength forward optical detection
by G. Chari, A. Gulati, R. Bhat and I. R. Tebbett (Chicago, IL, USA) (Received May 29th, 1991) 263

High-performance liquid chromatographic determination of ethacrynic acid in human plasma
by F. P. LaCreta, J. M. Brennan, P. W. Tinsley and P. J. O'Dwyer (Philadelphia, PA, USA) (Received June 13th, 1991) 271

Simultaneous determination of a new dihydropyridine calcium antagonist (MCP-1304) and its metabolite in dog plasma by high-performance liquid chromatography with electrochemical detection
by Y. Iida, Y. Kinouchi and Y. Takeichi (Tokushima, Japan) and T. Imai and M. Otagiri (Kumamoto, Japan) (Received May 24th, 1991) 277

High-performance liquid chromatographic determination of lansoprazole and its metabolites in human serum and urine
by I. Aoki, M. Okumura and T. Yashiki (Osaka, Japan) (Received May 15th, 1991) . . . 283

Direct enantiomeric separation of terfenadine and its major acid metabolite by high-performance liquid chromatography, and the lack of stereoselective terfenadine enantiomer biotransformation in man
by K. Y. Chan, R. C. George, T.-M. Chen and R. A. Okerholm (Cincinnati, OH, USA) (Received May 31st, 1991) 291

Solid-phase extraction of midazolam and two of its metabolites from plasma for high-performance liquid chromatographic analysis
by V. Sautou, J. Chopineau, M. P. Terrisse and P. Bastide (Clermont-Ferrand, France) (Received May 31st, 1991) 298

(Continued overleaf)

Column liquid chromatographic assay of the dopamine reuptake inhibitor vanoxerine (GBR 12909) in human serum
by S. H. Ingwersen (Maaloev, Denmark) (Received June 21st, 1991) 305

Simple high-performance liquid chromatographic method for the determination of a new phytochemical drug, fellavine, and its metabolites in human and rat plasma and urine
by N. A. Tjukavkina, S. V. Geodakyan, A. I. Khvostova, J. A. Kolesnik and V. I. Glyzin (Moscow, USSR) (Received May 28th, 1991) 312

Rapid method for the determination of ketanserin in rat serum by high-performance liquid chromatography with fluorimetric detection
by Y. W. J. Wong and M. H. Skinner (San Antonio, TX, USA) (Received June 21st, 1991) 318

Determination of glyphosate and its metabolite, (aminomethyl)phosphonic acid, in serum using capillary electrophoresis
by M. Tomita, T. Okuyama and Y. Nigo (Kurashiki, Japan) and B. Uno and S. Kawai (Gifu, Japan) (Received May 21st, 1991) 324

Modified high-performance liquid chromatographic method for the determination of ganciclovir in plasma from patients with severe renal impairment
by R. Boulieu, N. Bleyzac and S. Ferry (Lyon, France) (Received June 5th, 1991) 331

Book Review

Liquid chromatography in biomedical analysis (edited by T. Hanai), reviewed by R. N. Gupta . . 334

Related articles published in Journal of Chromatography, Vols. 558 and 585 336

Author Index 339

Compound Index 343

Announcement of Special Issue on Applications of Chromatography and Electrophoresis in Food Science 347

In articles with more than one author, the name of the author to whom correspondence should be addressed is indicated in the article heading by a 6-pointed asterisk (*)